Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

**One-Step Dimensional Analysis Homework**

**Directions:** Solve the following single-step dimensional analysis problems. For full credit, you must show your work for each problem as shown in the example below. Box your final answer!

**Example:** Wine is often bottled in 0.750-L containers. Calculate the volume of such a bottle of wine in gallons.

|  |
| --- |
| GIVEN (with number): LOOKING FOR:  T-CHART: |

|  |  |  |
| --- | --- | --- |
| **Conversion Table** | | |
| 1 L = 0.26 gallons  1 kilogram (kg) = 1000 grams | 1 kg = 2.2 lbs  1 meter = 1.09 yards | 1 inch = 2.54 centimeters  1 mile = 1.61 kilometers |

|  |  |
| --- | --- |
| **1.**  **254.3 g to kilograms** | GIVEN (with number): LOOKING FOR:  T-CHART: |

|  |  |
| --- | --- |
| **2.**  **2.74 kg to grams** | GIVEN (with number): LOOKING FOR:  T-CHART: |

|  |  |
| --- | --- |
| **3.**  **2.74 kg to pounds** | GIVEN (with number): LOOKING FOR:  T-CHART: |

|  |  |
| --- | --- |
| **4.**  **2.23 meters to yards** | GIVEN (with number): LOOKING FOR:  T-CHART: |
| **5.**  **881.2 inches to centimeters** | GIVEN (with number): LOOKING FOR:  T-CHART: |

|  |  |
| --- | --- |
| **6.**  **445.5 miles to kilometers** | GIVEN (with number): LOOKING FOR:  T-CHART: |

|  |  |
| --- | --- |
| **7.**  **1.75 lbs to kilograms** | GIVEN (with number): LOOKING FOR:  T-CHART: |

**8. Boston and New York City are 190 miles apart. What is this distance in kilometers?**

**9. For a pharmacist dispensing pills or capsules, it is often easier to weigh the medication to be dispensed rather than to count the individual pills. If a single antibiotic capsule weighs 0.65 grams, what is its weight in kilograms?**